

- 10 C) a vapor guide defining a vapor path along which it directs to the at least one  
11 condensation chamber vapor thereby produced in the at least one evaporation  
12 chamber.

Please replace claim 2 with the following amended version thereof to incorporate the  
revisions set forth on the accompanying mark-up page:

- A2 1 2. (Amended) An evaporator-and-condenser unit as defined in claim 1 wherein each  
2 said at least one evaporation chamber's irrigation rate reaches its peak irrigation rate peri-  
3 odically.

Please replace claim 4 with the following amended version thereof to incorporate  
the revisions set forth on the accompanying mark-up page:

- 1 4. (Amended) An evaporator-and-condenser unit as defined in claim 3 wherein each  
2 said at least one evaporation chamber's irrigation rate reaches its peak irrigation rate peri-  
3 odically.

A3 Please replace claim 5 with the following amended version thereof to incorporate  
the revisions set forth on the accompanying mark-up page:

- Sub C1 1 5. (Amended) An evaporator-and-condenser unit as defined in claim 1 wherein the  
2 irrigation system includes:  
3 A) a main sprayer system that irrigates each said at least one evaporation cham-  
4 ber for at least the majority of the time; and  
5 B) an auxiliary sprayer system that irrigates each said at least one evaporation  
6 chamber for only a minority of the time, the rate at which each said at least  
7 one evaporation chamber is irrigated while the auxiliary sprayer system is ir-  
8 rigating it being at least twice the average irrigation rate thereof.

Please replace claim 6 with the following amended version thereof to incorporate the revisions set forth on the accompanying mark-up page:

- 1 6. (Amended) An evaporator-and-condenser unit as defined in claim 5 wherein:  
2 A) the evaporator-and-condenser unit includes a plurality of said evaporation  
3 chambers;  
4 B) the auxiliary sprayer system includes at least one auxiliary-system nozzle,  
5 associated with at least some of said evaporation chambers, from which the  
6 auxiliary sprayer system produces an auxiliary-system spray; and  
7 C) for each of the evaporation chambers with which the auxiliary-system nozzle  
8 is associated, the auxiliary-system nozzle executes reciprocation between po-  
9 sitions in which the auxiliary-system spray irrigates that evaporation cham-  
10 ber and positions in which the auxiliary-system spray does not irrigate that  
11 evaporation chamber.

Please replace claim 11 with the following amended version thereof to incorporate the revisions set forth on the accompanying mark-up page:

- 1 11. (Amended) An evaporator-and-condenser unit as defined in claim 1 wherein the  
2 heat exchanger is a rotary heat exchanger in which the heat-transfer surfaces are mounted  
3 for rotation about a central cavity from which the irrigation system irrigates the at least one  
4 evaporation chamber.

Please replace claim 13 with the following amended version thereof to incorporate the revisions set forth on the accompanying mark-up page:

Sub C 2  
1 13. (Amended) An evaporator-and-condenser unit as defined in claim 11 wherein the  
2 irrigation system includes.

3 A) a main sprayer system that irrigates each said at least one evaporation cham-  
4 ber for at least the majority of the time; and

5 B) an auxiliary sprayer system that irrigates each said at least one evaporation  
6 chamber for only a minority of the time, the rate at which each said at least  
7 one evaporation chamber is irrigated while the auxiliary sprayer system is ir-  
8 rigating it being at least twice the average irrigation rate thereof.

Please replace claim 15 with the following amended version thereof to incorpo-  
rate the revisions set forth on the accompanying mark-up page:

1 15. (Amended) An evaporator-and-condenser unit as defined in claim 13  
2 wherein:

3 A) the evaporator-and-condenser unit includes a plurality of said evaporation  
4 chambers;

5 B) the auxiliary sprayer system includes at least one auxiliary-system noz-  
6 zle, associated with at least some of said evaporation chambers, from  
7 which the auxiliary sprayer system produces an auxiliary-system spray;  
8 and

9 C) for each of the evaporation chambers with which the auxiliary-system  
10 nozzle is associated, the auxiliary-system nozzle executes reciprocation  
11 between positions in which the auxiliary-system spray irrigates that  
12 evaporation chamber and positions in which the auxiliary-system spray  
13 does not irrigate that evaporation chamber.

Please replace claim 16 with the following amended version thereof to incorporate the revisions set forth on the accompanying mark-up page:

- 1 16. (Amended) An evaporator-and-condenser unit as defined in claim 15 further in-  
2 cluding a compressor so interposed in the vapor path as to make the vapor pressure in the  
3 at least one condensation chamber exceed that in the evaporation chambers.

Please replace claim 17 with the following amended version thereof to incorporate the revisions set forth on the accompanying mark-up page:

- 1 17. (Amended) An evaporator-and-condenser unit as defined in claim 1 wherein:  
2 A) the peak irrigation rate for each said at least one evaporation chamber ex-  
3 ceeds the steady-state rate required to keep the heat-transfer surfaces thereof  
4 wetted; and  
5 B) the average irrigation rate for each said at least one evaporation chamber is  
6 no more than half the steady-state rate required to keep the heat-transfer sur-  
7 faces of that evaporation chamber wetted.

Please replace claim 18 with the following amended version thereof to incorporate the revisions set forth on the accompanying mark-up page:

- 1 18. (Amended) An evaporator-and-condenser unit as defined in claim 17 wherein  
2 each said at least one evaporation chamber's irrigation rate reaches its peak irrigation rate  
3 periodically.

Please replace claim 20 with the following amended version thereof to incorporate the revisions set forth on the accompanying mark-up page:

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- 1 20. (Amended) An evaporator-and-condenser unit as defined in claim 17 wherein  
2 the irrigation system includes:  
3 A) a main sprayer system that irrigates each said at least one evaporation  
4 chamber for at least the majority of the time; and  
5 B) an auxiliary sprayer system that irrigates each said at least one evapora-  
6 tion chamber for only a minority of the time, the rate at which each said  
7 at least one evaporation chamber is irrigated while the auxiliary sprayer  
8 system is irrigating it being at least twice the average irrigation rate  
9 thereof.
- AA

Please replace claim 22 with the following amended version thereof to incorporate the revisions set forth on the accompanying mark-up page:

- 1 22. (Amended) An evaporator-and-condenser unit as defined in claim 20  
2 wherein:  
3 A) the evaporator-and-condenser unit includes a plurality of said evaporation  
4 chambers;  
5 B) the auxiliary sprayer system includes at least one auxiliary-system noz-  
6 zle, associated with at least some of said evaporation chambers, from  
7 which the auxiliary sprayer system produces an auxiliary-system spray;  
8 and  
9 C) for each of the evaporation chambers with which the auxiliary-system  
10 nozzle is associated, the auxiliary-system nozzle executes reciprocation  
11 between positions in which the auxiliary-system spray irrigates that
- AA

12  
13

evaporation chamber and positions in which the auxiliary-system spray does not irrigate that evaporation chamber.

Please replace claim 24 with the following amended version thereof to incorporate the revisions set forth on the accompanying mark-up page:

- 1 24. (Amended) An evaporator-and-condenser unit as defined in claim 17 wherein the  
2 heat exchanger is a rotary heat exchanger in which the heat-transfer surfaces are mounted  
3 for rotation about a central cavity from which the irrigation system irrigates the at least one  
4 evaporation chamber.

Please replace claim 28 with the following amended version thereof to incorporate the revisions set forth on the accompanying mark-up page:

- 1 28. (Amended) An evaporator-and-condenser unit as defined in claim 26  
2 wherein:  
3 A) the evaporator-and-condenser unit includes a plurality of said evaporation  
4 chambers;  
5 B) the auxiliary sprayer system includes at least one auxiliary-system nozzle, associated with at least some of said evaporation chambers, from  
6 which the auxiliary sprayer system produces an auxiliary-system spray;  
7 and  
8  
9 C) for each of the evaporation chambers with which the auxiliary-system  
10 nozzle is associated, the auxiliary-system nozzle executes reciprocation  
11 between positions in which the auxiliary-system spray irrigates that  
12 evaporation chamber and positions in which the auxiliary-system spray  
13 does not irrigate that evaporation chamber.